

WATER IN NATURE IS A BASIS OF A COMPLEX OF INNOVATIVE TECHNOLOGIES FOR HUMAN HEALTH, ACTIVE LONGEVITY, ECOLOGY OF ENVIRONMENT AND OTHER INDUSTRIES

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The water will be one of the priorities of the third millennium.

The most interesting waters in nature are under the influence of different physical fields. Under the influence of physical fields water is in a dynamically stable thermodynamically nonequilibrium state and has in comparison with a thermodynamically equilibrium state lower values of entropy and higher values of free energy, and, as one of the consequences, performs work on its environment is an active medium it has new almost magical physical properties. But once again the best technologist of course is NATURE

Human health: Modern medicine considers aqueous solutions (water), which are 60-80 % of a human body, as passive environment in which biochemical reactions occur. This is absolutely wrong idea. Water in a living organism under the influence of physical fields (primarily an electric field) that it is not passive, but active environment. Awareness of water activity in vivo gives researchers new horizons in diagnostic, therapeutic, preventive and rehabilitative medicine, a possibility to impose deliberately and justifiably additional options, which can describe this activity.

Water in a living organism under the influence of an electric field has extremal values ORP (redox potential), which provides water with either reducing (electron-donor) – antioxidant, geroprotector, radioprotector properties (ORP... -100 mV and lower), or oxidizing (electron-acceptor) – biocidal, antiseptic, disinfection, wound-healing properties (ORP ... +700 mV and higher). In fairy tales such waters were calling – LIVING (ZHYVA) WATER and DEAD (MERTVA) WATER. More modern are EIVR (electro- ionized aqueous solutions), anolite, catholite. For example, ORP about -100 mV have blood, mother's milk, amniotic fluid.

Understanding of physical nature of the processes that take place with the participation of water in living organisms allows knowingly using for prevention and for treatment and rehabilitation of various diseases thermodynamically nonequilibrium water (prepared outside a living organism) with reducing or oxidizing properties, as opposed to drinking water, infusion or other therapeutic solutions, used in medicine, which are thermodynamically equilibrium to the environment and have ORP in a range +250 mV - +450 mV. The drinking water with such ORP, I call – ROTTEN WATER.

Scientifically reasonable application of thermodynamically nonequilibrium water allows, for example, treating burn, wounds, decubitus, diabetic and trophic ulcers, without of antibiotics and with greater efficacy (in our practice, there are positive results for the diagnosis – diabetic gangrene), renewing of negative charge of blood cells surface and prevent thrombosis, discharging virus surfaces and reducing virus burden at virus deceases, providing conditions for cancer cells at which they stop dividing (these conditions are safe for normal cells), helping to reduce the size of tumors and to prevent the formation of metastasis. We have conducted a part of the necessary research in the scientific and medical institutions, in particular, in the Kavetsky Institute of Oncology, and have got the result of the global level - using non-contact methods, completely neutralized with nephrotoxic effects of cisplatin chemotherapy on the body.

One of the options for the prevention of diseases of civilization should be, following the example of Japan – one of the healthiest and having the highest average duration of active (i.e., no disease) life, nations in the world - providing the population with ionized reduced (hydrogen) drinking water with reducing (antioxidant, geroprotective, radioprotective) properties. We can already offer such water at

the price 30-50 times cheaper than Japanese analogues; In combination with other activities, to solve the extremely important socio-psychological problem of increasing the average life expectancy.

The understanding of the physical essence of water in a living organism is the basis for the association of eastern medicine and western medicine and the transformation integrated medicine into a fundamental science.

Also, in almost all industries, with economic and environmental benefits, can be replaced – acids, alkali, oxidizer, reducing agents and other chemical reagents on the LIVING WATER and DEAD WATER. Integrated application of EIVR allows:

In the municipal economy - at water treatment plants, to reduce the consumption of electricity and reagents by 5-10 times while disinfection of water, even to improve the condition of water supply networks, to disinfect sewage and air (remove unpleasant odors) at aeration stations, to reduce the area of silt fields, to solve the issue of effective disinfection of sewage of tubercular and infectious departments of medical institutions. Using the unique electrocatching properties of the anolyte, to ensure an ideal sanitary and epidemiological condition at all municipal facilities, transport, food and processing industry enterprises, etc.

In agriculture and food industry - to carry out the restoration of land that had been “killed” by chemistry, to increase the efficiency of crop production, poultry, livestock, processing industry, storage of agricultural products, to increase the depth of processing of raw materials, to remove from the market various colas and other colonial products. At the same time, it is essential to reduce the consumption of water, electricity, various chemical and biological reagents that are dangerous to humans and the environment, in particular, completely abandon the use of formalin, and ultimately produce more environmentally friendly food, which will benefit human health as well and improve the state of the environment. Special offer for China – to produce noodles with low free radical content.

In other industries – to use in many technological processes, while improving their efficiency, in particular, during drilling operations (for the future production of shale gas), mining industry in uranium mining, additional oil production from already conserved wells, oil and gas processing industry for Account of the use of EIVR, to provide a significant reduction in the use of concentrated acids, alkalis, oxidants, reducing agents, etc. Environmental and economic benefits, while, are obvious. Special offer for China – to produce stronger building materials and concrete with a savings in cement.

Taking into account the real nanotechnological boom, we note that EIVR does not even include nanoparticles, but individual atoms and molecules that restore these waters - antioxidant and oxidative - are biocidal properties, then from the use of such waters in medicine and other industries, one should expect more sensational results than from the use of aqueous solutions of nanoparticles. Electron-donor (living) and electron-acceptor (dead) water are produced in the human body - this obsession indicates that the EIVR is certainly one of the foundations of medicine, incl. and veterinary, future.

Private Enterprise “ZHYVA VODA”, partners from Ukraine and other countries have the necessary normative and technical documentation and are ready to cooperate in all the above-mentioned industries.

Also, we invite all interested to discuss the creation of the Innovation Center WATER (IC WATER). The Center's activities will consist both in the implementation of already ready-made innovative water technologies, and in carrying out fundamental and applied scientific research and in the further dissemination of new technologies and knowledge about the priceless gift of Nature - about WATER.